

## Abstract

*Ans*  
162

A sensor element formed of PZT is overlapped onto an actuator formed of electrostrictive elements, and both members are pinched between a rigid body that is not deformed; by impressing an alternating-current signal to the actuator, the sensor element is deformed in accordance with an amount of deformation thereof for utilizing the thus generated electromotive force of the sensor element as a signal for absolute value calculation.